

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-10 (Canceled)

Claim 11 (Currently Amended): A reactor, comprising:

a plurality of reactor sections;

means for ~~feeding and removing reactants and reaction products to and a reaction~~
mixture from one of the plurality of from one or more of the reactor sections and recycling
the reaction mixture to one of the plurality of reactor sections; and

means for controlling reaction temperature in the plurality of reactor sections;

wherein:

each pair of adjacent reactor sections is separated by a dividing wall;

each dividing wall comprises at least one orifice; and

a nozzle extends into a first reactor section of the plurality of reactor sections.

Claim 12 (Previously Presented): A reactor as claimed in claim 11, wherein the at least one orifice of each dividing wall is provided substantially centrally on the respective dividing wall.

Claim 13 (Previously Presented): A reactor as claimed in claim 11, wherein the nozzle comprises a jet nozzle, mixing nozzle or binary nozzle.

Claim 14 (Previously Presented): A reactor as claimed in claim 11, wherein the reactor is provided with an annular tube having a plurality of outlet orifices and a line for

feeding in a starting material, the annular tube and the line being provided in a bottom region of the first reactor section.

Claim 15 (Previously Presented): A reactor as claimed in claim 11, wherein:
a volume of the first reactor section is greater than a volume of the remaining reactor sections; and
the volume of the first reactor section accounts for from 25 to 50% of a total volume of the reactor.

Claim 16 (Previously Presented): A reactor as claimed in claim 11, wherein:
the reactor is provided with a second reactor section adjacent to the first reactor section; and
at least one of the first reactor section and the second reactor section is equipped with a static mixing element.

Claim 17 (Previously Presented): A reactor as claimed in claim 11, wherein:
the reactor is provided with a second reactor section adjacent to the first reactor section;
a second nozzle for mixing the content of the second section is provided in the orifice of the dividing wall separating the first reactor section and the second reactor section; and
an outlet orifice of the second nozzle is provided roughly in a plane of the dividing wall.

Claim 18 (Currently Amended): A reactor, comprising:
a plurality of reactor sections;

means for ~~feeding and removing reactants and reaction products to and~~ a reaction mixture from one or more of the plurality of reactor sections and recycling the reaction mixture to one of the plurality of reactor sections; and

means for controlling reaction temperature in the plurality of reactor sections;

wherein:

each pair of adjacent reactor sections is separated by a dividing wall;

each dividing wall comprises at least one orifice;

a nozzle extends into a first reactor section of the plurality of reactor sections;

the means for controlling reaction temperature comprises a heat exchanger; and

the means for ~~feeding and removing reactants and reaction products and~~ recycling the reaction mixture comprises a line through which contents of the first reactor section can be removed from the first reactor section, subjected to heat reduction by the heat exchanger, and returned to the first reactor via the nozzle.